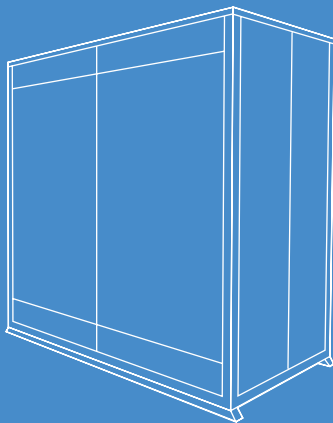


# KELVIN Clim C12 PF

Cooling Capacity: 12 ~ 154 kW



Air cooled condensers equipped with plug fan

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KELVIN CLIM C12 PF : Air cooled condensers equipped with plug fan  
Capacity: 12 ~ 154 kW



## KELVIN AIR CONDITIONING



### MAIN FEATURES

- Air cooled condensers.
- 14 models available, for a wide selection opportunity.
- Average step of 10kW.
- Multi-refrigerant charge.
- Supplied with seal charge.
- EC Plug-fan.
- Horizontal/Vertical air flow.
- Suitable for indoor installation.

### MAIN BENEFITS

- Designed for the perfect match with KELVIN motoevaporating units.
- EC Plug fan for a high efficiency.
- Availability of machine for the reduction and the extreme reduction of the noise.
- Availability of horizontal and vertical air delivery. To change air delivery mode it's simply required the change of position of a single panel.
- Easily of maintenance.
- Eurovent Certification.(pending)

### FANS WITH BRUSHLESS TYPE EC MOTOR

The fans electric motors are the brushless type with built-in electronic commutation system (EC) which yield high energy savings during operation in reduced air flow.

These electric motors are ensuring high performances, minimum energy consumption and total absence of electromagnetic noise

### INDOOR INSTALLATION

The machines are designed for indoor installation and ducting for air suction and discharge.

For outdoor installation the use of the dedicated optional kit is mandatory. The machine must be installed under a cover or anyway protected against atmospheric agent.



MAIN COMPONENTS

FRAMEWORK

- Base, self supporting frame and panelling in steel plate with protective surfaces treatment in compliance with UNI ISO 9227/ASTMB117 and ISO 7253, and painted with epoxy powders.
- Colour: RAL 9002.

FANS SECTION

- Centrifugal fans with backward curved blades with wing profile, single suction and without scroll housings (Plug-fan).
- Brushless type synchronous EC motor with integrated electronic commutated system and continuous variation of the rotation speed. The motor rotation control is obtained with the EC system (Electronic Commutation) that manage the motor according to the 0~10V proportional signal coming from the internal unit microprocessor control.
- Maintenance-free bearings
- IP54 enclosure class.

AIR/GAS HEAT EXCHANGERS

- Heat exchanger coil with internally corrugated copper tubes and high efficiency aluminium fins, specifically developed to provide high heat transfer and lower pressure drops. The combination of two factors, special tubes and fins, allow to optimally combine the following aspects:
  - Maximum capacity relative to the size of the exchanger,
  - Minimum charge of refrigerant,
  - Reduction of the air flow required for the heat exchange.
- Frame in galvanized steel.

REFRIGERANT CIRCUIT

- Valves on gas and liquid line for coupling to refrigerant pipe. The valves are supplied not installed. The condenser is supplied with nitrogen seal.

ELECTRICAL PANEL

- In accordance with EN60204-1 norms, suitable for outdoor installation, IP54 enclosure class, complete with:
- Terminals for power supply (from network).  
- 380-480/3/50-60 for models "T".
  - Terminals for 0~10V signal for condensing control system (connect to indoor machine).
  - Terminals for alarm signal (connect to indoor machine).

TECHNICAL DATA KELVIN Clim C12 PF

KELVIN Clim C12 PF		T 11	T 14	T 17	T 21	T 24	T 33	T 38	T 44	
STANDARD	Capacity (1)									
	With refrigerant charge R410A	kW	12,1	15,6	18,2	21,6	25,0	35,1	39,8	46,5
	With refrigerant charge R407C	kW	12,0	15,6	18,2	21,6	25,0	35,1	39,8	46,5
	With refrigerant charge R134a	kW	11,7	15,3	17,9	21,3	24,7	34,7	39,3	46,0
	Unit power input	kW	0,4	0,4	0,5	0,5	0,6	1,3	1,1	1,2
	Plug-fans	n.	1	1	1	1	1	1	1	1
	Total air flow	m³/h	4900	4900	4900	4900	6400	8000	10000	10000
	Available static pressure	Pa	50	50	50	50	50	50	50	50
	Max available static pressure	Pa	375	350	332	290	748	474	298	268
	Air circuits	n.	1	1	1	1	1	1	1	1
	Total refrigerant charge (optional excluded)	kg	0,8	1,2	1,7	2,6	2,5	3,8	4,3	6,4
	Gas circuits	n.	1	1	1	1	1	1	1	1
	Power supply	V/Ph/Hz	380-480/3/50-60	380-480/3/50-60	380-480/3/50-60	380-480/3/50-60	380-480/3/50-60	380-480/3/50-60	380-480/3/50-60	380-480/3/50-60
	Max unit operating current (FLA)	A	1,6	1,6	1,6	1,6	4,3	4,3	3,6	3,6
	Sound power level [Lw] (2)	dB(A)	76,2	76,2	76,1	76,1	82,5	87,4	86,6	86,8
	Average sound pressure level [Lpm] (3)	dB(A)	61,6	61,6	61,5	61,5	67,1	72,0	71,1	71,3
Net weight	kg	143	148	153	163	210	222	284	310	
Refrigerant connections										
Liquid line – ODS	Ø mm	16	16	16	16	18	18	18	18	
Gas line – ODS	Ø mm	18	18	22	22	22	22	22	22	
TEAM MATE PF LNO	Capacity (1)									
	With refrigerant charge R410A	kW	10,8	13,7	15,9	18,8	21,6	30,2	34,5	40,1
	With refrigerant charge R407C	kW	10,5	13,7	15,9	18,8	21,6	30,2	34,5	40,1
	With refrigerant charge R134a	kW	10,2	13,3	15,5	18,4	21,0	29,4	33,7	39,3
	Unit power input	kW	0,3	0,3	0,3	0,3	0,4	0,8	0,7	0,8
	Total air flow	m³/h	4165	4165	4165	4165	5440	6800	8500	8500
Available static pressure	Pa	36	36	36	36	36	36	36	36	
Sound power level [Lw] (2)	dB(A)	72,3	72,3	72,2	72,2	78,6	83,5	82,7	82,9	
Average sound pressure level [Lpm] (3)	dB(A)	57,7	57,7	57,6	57,6	63,2	68,1	67,2	67,4	
TEAM MATE PF ELN	Capacity (1)									
	With refrigerant charge R410A	kW	9,5	11,9	13,7	16,0	18,7	25,8	29,7	34,0
	With refrigerant charge R407C	kW	9,3	11,9	13,7	16,0	18,7	25,8	29,7	34,0
	With refrigerant charge R134a	kW	9,1	11,6	13,4	15,7	18,2	25,2	29,1	33,5
	Unit power input	kW	0,2	0,2	0,2	0,2	0,3	0,5	0,5	0,5
	Total air flow	m³/h	3430	3430	3430	3430	4480	5600	7000	7000
Available static pressure	Pa	25	25	25	25	25	25	25	25	
Sound power level [Lw] (2)	dB(A)	67,6	67,6	67,5	67,5	73,9	78,8	78,1	78,3	
Average sound pressure level [Lpm] (3)	dB(A)	53,1	53,1	53,0	53,0	58,6	63,5	62,6	62,8	

1. Referred to condensation temperature 50°C; ambient temperature 35°C.  
 2. Sound power level [Lw] according to ISO EN 9614 - 2.  
 3. Average sound pressure level [Lpm] 1m far according to ISO EN 3744.

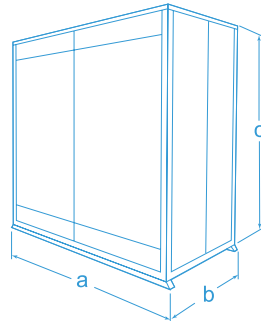
TECHNICAL DATA KELVIN Clim C12 PF

KELVIN Clim C12 PF		T 58	T 69	T 86	T108	T114	T144	
STANDARD	<b>Capacity (1)</b>							
	With refrigerant charge R410A	kW	62,0	73,1	91,0	113,0	122,0	154,0
	With refrigerant charge R407C	kW	62,0	73,1	91,0	113,0	122,0	154,0
	With refrigerant charge R134a	kW	61,2	72,4	89,9	111,0	121,0	152,0
	Unit power input	kW	2,2	2,4	3,3	4,7	5,6	7,4
	Plug-fans	n.	2	2	3	3	3	4
	Total air flow	m³/h	16000	16000	24000	32000	28000	36000
	Available static pressure	Pa	50	50	50	50	50	50
	Max available static pressure	Pa	552	512	542	515	204	237
	Air circuits	n.	1	1	1	1	1	1
	Total refrigerant charge (optional excluded)	kg	5,9	8,8	10,2	10,3	9,4	14,0
	Gas circuits	n.	1	1	1	1	1	1
	Power supply	V/Ph/Hz	380-480/3/50-60	380-480/3/50-60	380-480/3/50-60	380-480/3/50-60	380-480/3/50-60	380-480/3/50-60
	Max unit operating current (FLA)	A	8,6	8,6	12,9	17,2	12,9	17,2
	Sound power level [Lw] (2)	dB(A)	93,4	93,5	96,9	98,7	100,3	101,4
	Average sound pressure level [Lpm] (3)	dB(A)	77,3	77,4	80,3	81,8	83,7	84,5
	Net weight	kg	387	421	515	625	557	673
	Refrigerant connections							
	Liquid line – ODS	Ø mm	22	22	22	22	22	28
	Gas line – ODS	Ø mm	35	35	35	35	35	35
TEAM MATE PF LNO	<b>Capacity (1)</b>							
	With refrigerant charge R410A	kW						
	With refrigerant charge R407C	kW	53,4	62,7	78,6	98,9	105,0	131,0
	With refrigerant charge R134a	kW	51,8	61,3	76,2	96,2	102,0	127,0
	Unit power input	kW	1,4	1,5	2,2	3,0	3,6	4,7
	Total air flow	m³/h	13600	13600	20400	27200	23800	30600
	Available static pressure	Pa	36	36	36	36	36	36
	Sound power level [Lw] (2)	dB(A)	89,5	89,6	93,0	94,8	96,4	97,5
Average sound pressure level [Lpm] (3)	dB(A)	73,4	73,5	76,4	77,9	79,8	80,6	
TEAM MATE PF ELN	<b>Capacity (1)</b>							
	With refrigerant charge R410A	kW	46,2	53,4	68,1	85,9	89,8	113,0
	With refrigerant charge R407C	kW	46,2	53,4	68,1	85,9	89,8	113,0
	With refrigerant charge R134a	kW	45,0	52,4	66,4	83,8	87,9	110,0
	Unit power input	kW	0,8	0,9	1,3	1,8	2,1	2,8
	Total air flow	m³/h	11200	11200	16800	22400	19600	25200
	Available static pressure	Pa	25	25	25	25	25	25
Sound power level [Lw] (2)	dB(A)	84,8	84,9	88,3	90,2	91,7	92,9	
Average sound pressure level [Lpm] (3)	dB(A)	68,8	68,9	71,8	73,3	75,2	76,0	

1. Referred to condensation temperature 50°C; ambient temperature 35°C.
2. Sound power level [Lw] according to ISO EN 9614 - 2.
3. Average sound pressure level [Lpm] 1m far according to ISO EN 3744.

DIMENSIONS (mm)

KELVIN Clim C12 PF			
	a	b	c
T 11	890	880	900
T 14	890	880	900
T 17	890	880	900
T 21	890	880	900
T 24	1190	880	900
T 33	1190	880	900
T 38	1390	880	1300
T 44	1390	880	1300
T 58	1840	880	1300
T 69	1840	880 <td 1300	
T 86	2290	880	1300
T108	1840	880	1800
T114	2290	880	1300
T144	1840	880	1800



(\*) please refer to technical catalogues for further information about connections dimensions





